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L1

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.L9 ANSWER 4 OF 4 CA COPYRIGHT 2003 ACS on STN  
AB The effects of kenaf (*Hibiscus cannabinus*) seeds on serum and liver lipid concn. in rats were investigated. Rats were fed a hypercholesterolemic diet (contg. 1% cholesterol and 0.25% cholic acid) supplemented with 5% kenaf seed powder or 5% hot-water ext. from the calyx of Thai kenaf (*Hibiscus sabdariffa*). The serum cholesterol concn. was significantly lower in the rats fed the diet supplemented with seed powder than in rats of the control group. The ext. from the flower did not exert a similar effect. The HDL-cholesterol concn. in the serum was not converted, but the (VLDL+LDL)-cholesterol concn. decreased as compared to the control group. No significant differences in liver cholesterol concn. were obsd. for all substances tested. Rats were fed a diet contg. polysaccharide extd. from the seeds collected in the Hunan and Zhejiang regions of China. The serum cholesterol concn. was significantly lower in the rats fed a diet supplemented with 1% or 5% polysaccharides as compared to control group, but did not differ significantly between the two regional seed sources. There was no significant difference in liver cholesterol concn. between the control and the treatment groups. The results suggest that the polysaccharides extd. from kenaf seeds have serum cholesterol-lowering effects in rats.  
AN 135:221097 CA  
TI Cholesterol-lowering effect of water-soluble polysaccharides from kenaf (*Hibiscus cannabinus*) seeds in rats I  
AU Tamaki, Yasutomo; Kinjo, Kazuhiko; Uechi, Shuntoku; Hongo, Fujiya; Sameshima, Kazuhiko; Yaga, Shiryo  
CS Fac. Agric., Univ. Ryukyus, Okinawa, 903 0213, Japan  
SO Mokuzaigakkaishi (2001), 47(2), 159-163  
CODEN: MKZGA7; ISSN: 0021-4795  
PB Nippon Mokuzaigakkaishi  
DT Journal  
LA Japanese